AMENDMENTS TO THE CLAIMS

Please accept amended Claims 21 and 31 and new Claims 40-42 as follows: 1-20. (Cancelled)

21. (Currently Amended) A device having stored codes executable by a processor for causing the processor to perform method steps to resolve ambiguities in keyboard entries, the method comprising the steps of:

receiving a stream of digits in a sequence according to sequence of key selection from said keyboard, each key of said keyboard outputting upon selection a unique digit representing more than one letters;

matching said stream of digits in sequence against a look-up-table of known words; and outputting a known word if there is a match from said matching outputting one of a plurality of known words matched from said look-up-table based on a higher probability dependent from a category of a previously matched word in a sentence including the output word and the previously matched word.

- 22. (Previously Presented) The device according to claim 21, further including codes for causing said processor to reconstruct a word if no known words stored in the look-up-table matches said stream of digits.
- 23. (Previously Presented) The device according to claim 22, further including codes for causing said processor to select a plurality of words based on probability of occurrence.

- 24. (Previously Presented) The method according to claim 21, further including the steps of: retrieving partial matches if there is no match of a known word; performing affix or suffix analysis on said stream of digits; and removing affixes suffixes found to reconstruct a known work.
- 25. (Previously Presented) The method according to claim 21, further including: recursively constructing said string of digits to a proper name if there is no match of a known word.
- 26. (Previously Presented) The method according to claim 21, further including: outputting all known words if more than one known word matches said string of digits; and choosing one of said matches and use the chosen word in a sentence.
- 27. (Previously Presented) The method according to claim 26, further including the steps of: reconstructing a plurality of words based on probability of occurrence; choosing words based on proper position; and editing unknown words to form a sentence.
- 28. (Previously Presented) The method according to claim 21, further including:
 outputting one of a plurality of known words matched from said look-up-table based on
 a higher probability dependent from a preceding word.

- 29. (Previously Presented) The device according to claim 21, wherein said look-up-table is a listing of non-English characters correlated with predetermined digit strings based on phonetics.
- 30. (Previously Presented) The device according to claim 29, wherein said non-English characters are Chinese.
- 31. (Currently Amended) A device for resolving ambiguities in letter entries, comprising:

 a processor and associated storage for storing a program executable by said processor;

 a database of words addressable against a string of digits; and

 a keyboard for outputting said string of digits to said database, said keyboard having a

 plurality of keys, each of which outputting a digit representing more than one letters, wherein

 said processor executes said program to cause an output of a word from said database based on

said string of digits received from said keyboard and a category of a previously matched word in

32. (Previously Presented) The device according to claim 31, further including a display for displaying said word output from said database.

a sentence including the output word and the previously matched word.

- 33. (Previously Presented) The device according to claim 31, wherein said keyboard has less than twenty-four (24) keys.
- 34. (Previously Presented) The device according to claim 31, wherein said keyboard is a QWERTY keyboard.

- 35. (Previously Presented) The device according to claim 31, wherein said program includes codes executable by said processor for reconstructing a word if no word in said database matches said string of digits.
- 36. (Previously Presented) The device according to claim 35, wherein said program includes codes executable by said processor for selecting one of a plurality of words output from said database on probability of occurrence.
- 37. (Previously Presented) The device according to claim 36, wherein a word is chosen based on a preceding word.
- 38. (Previously Presented) The device according to claim 31, wherein a plurality of words matching said string of digits is displayed, and one of said plurality of words is chosen by entry of one of said keys on said keyboard.
- 39. (Previously Presented) The device according to claim 31, wherein said database stores non-English characters matched against said string of digits, said string of digits being chosen based on a phonetic representation of said non-English characters.
- 40. (New) A device having stored codes executable by a processor for causing the processor to perform method steps to resolve ambiguities in keyboard entries, the method comprising the steps of:

receiving a stream of digits in a sequence according to sequence of key selection from said keyboard, each key of said keyboard outputting upon selection a unique digit representing more than one letters;

matching said stream of digits in sequence against a look-up-table of known words, wherein said look-up-table is a listing of non-English characters correlated with predetermined digit strings based on phonetics;

determining a known word if there is a match from said matching of said stream of digits; matching the known word against a look-up-table of known characters;

determining a known character if there is a match from said matching of the known word; and

outputting a character corresponding to the known word, wherein ambiguities in determining the known character are resolved according to a sentence reconstruction.

- 41. (New) The device according to claim 21, wherein the sentence reconstruction includes determining a transitional probability of a use of the character in a sequence of characters.
- 42. (New) The device according to claim 21, wherein the sentence reconstruction includes determining a probability of relative position of characters including the character based on categories of at least another character in a sequence of characters.